J. ERNEST KENNEY
EUGENE MAR
RICHARD E. FICHTER
CHARLES R. WOLFE, JR.
THOMAS J. MOORE
JOSEPH DEBENEDICTIS'
BENJAMIN E. URCIA'
KLIFTON L. KIME'
WILLIAM F. MEINZE

GEORGE CHUNG CHIN CHEN

BAR OTHER THAN VA. REG. PATENT AGENT

LAW OFFICES

BACON & THOMAS

A PROFESSIONAL LIMITED LIABILITY COMPANY PATENT TRADEMARK AND COPYRIGHT CAUSES 625 SLATERS LANE - FOURTH FLOOR ALEXANDRIA, VIRGINIA 22314-1176 U.S.A.

TELEPHONE (703) 683-0500

FACSIMILE (703) 683-1080

E-Mail mail@baconthomas.com

FACSIMILE COMMUNICATION

Date:

To:

Examiner McDowell

USPTO

Fax #:

703-308-7749

Re:

U.S. Patent Application Serial No. 09/243,433

Inventors: LO et al.

From:

Richard E. Fichter

. FICHTEF com/

January 10, 2002

Confidential/Privileged

This communication contains confidential information that is intended to be received and read only by the party named as addressee (listed after "To:" at the left). This communication may contain information that is subject to the attorney/client privilege and/or a court order restricting its dissemination. No one else is entitled to read, use, copy or disseminate this communication or the information contained herein. If you are not the addressee, then contact us immediately by telephone (collect) or facsimila and arrangements will be made for the return to us of this communication.

Thank you, BACON & THOMAS, PLLC.

10

Pages Sent Including This Sheet.

- □ Please confirm receipt by return facsimile.
- □ Please call sender.
- □ Confirmation copy follows by □ Mail □ Courier

Message:

Attached are copies of the petition to withdraw the holding of abandonment and attachments filed therewith in connection with the above identified application. If we can be of further assistance or you need additional information, please let us know.

BACON & THOMAS

625 Slaters Lane 4th Fl., Alexandria, VA 22314

Filed: February 3, 1999

PATENT APPLICATION (PENDING)

Attorney: REF

. Applicant(s): LO et al.			Due Date:	11/16/0	
MAILROOM	□ ART UNIT	<u> </u>			
Special Instructions:					
The PTO stamp hereon acknowledge	owledges receipt of:				
☐ Amendment/Response	☐ Missing Parts Response w/Decl.	Request for Refu	und		
☐ Check S	☐ Appeal Brief (Triplicate)				
☐ Issue Fee	☐ Priority Documents(s)	Assignment			
☐ Preliminary Amendment ☐ Notice of Appeal					
☐ Extension of Time Petition	on 🗆 Substitute Declaration				015
☐ Terminal Disclaimer	☐ Information Disclosure Stmnt. /re	eferences			- And
□ Reply Brief (Triplicate) □ Request for CPA			May 5		
☐ Sheets of Drawings - ☐ Formal ☐ Informal			A 40 0 8 200 A		
☐ Sm. Entity Statements ☐ Inv. ☐ Sm. Bus. ☐ Non-Inv. ☐ Non-Profit			3		
□ Communication To:				A SELECTION	
Petition Under 37 CFR	1.181(a) Requesting Withdrawal of F	Holding of Abandons	ment		MARK

Filed By: REF/kd

. Serial No: 09/243,433

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PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Group Art Unit: 2812

Examiner: Not Assigned

In re Application of:

LO et al.

Serial No. 09/243,433

Flled: February 3, 1999

For: Mai

Manufacturing Method for Making Tungsten-Plug In An Integrated

Circuit Device Without Volcano Phenomena

PETITION UNDER 37 C.F.R. 1.181(a) REQUESTING WITHDRAWAL OF THE HOLDING OF ABANDONMENT

Assistant Commissioner for Patents Washington, D.C. 20231

Sir:

The undersigned attorney received a Notice of Abandonment Under 37 CFR 1.53(f) in connection with the above identified application. The Notice indicated that the above identified application is abandoned for failure to timely or properly reply to the Notice to File Missing Parts (Notice) mailed on March 3, 1999. The Notice was mailed on October 10, 2001. This petition has been timely filed.

Applicants have reviewed the file in detail and have concluded that the necessary response to the Notice to File Missing Parts of March 3, 1999 was timely filed on April 23, 1999. As evidence of the filing, Applicants submit herewith a USPTO stamped receipt card dated April 23, 1999, which acknowledges receipt of all of the appropriate papers and fees for a complete response. A copy of the endorsed and deposited check for this application is further evidence that the response was filed in the USPTO.

U.S. Serial Number 09/243,433

Copies of the response and appropriate executed declaration are also included herewith to complete the file and place the file in condition for an examination on the merits.

Since the fee has been paid as evidenced by the Patent Office endorsed check, it is submitted that no further fees are necessary. However, please charge to our deposit account No. 02-0200 any necessary fec for Withdrawal of the Notice of Abandonment in connection with this application.

Respectfully submitted,

BACON & THOMAS, PLLC

Richard E. Fichter

Registration No. 26,382

625 Slaters Lane - 4th Fl. Alexandria, Virginia 22314 Phone: (703) 683-0500

REF:kdd Pet to Wilhdaw Abn.wpd

Date: November 8, 2001







United States Patent and Trademark Office

COMMISSIONER FOR PATENTS UNITED STATES PATENT AND TRADEMARK OFFICE WASHINGTON, D.C. 20231 www.uspia.gov

Date Mailed: 10/10/2001

AFFEICATION NOMBER	FILINGOXTE	PIRST NAMED APPLICANT	ATTY. DOCKET NO TITLE
09/243,433	02/03/1999	YUNG-TSUN LO	REF/LO535CIP
	45 37 3	H* · · · ·	CONFIRMATION NO. 2498
BACON & THOMAS	- 10/10/5	ABANDO	NMENT/TERMINATION
625 SLATERS LANE	Date <u>/0/19/81</u>	A 49-29 1 3-1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
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ALEXANDRIA, VA 223141176	Deadline		
·	Final Deadline		

NOTICE OF ABANDONMENT UNDER 37 CFR 1.53 (f) OR (g)

The above-identified application is abandoned for failure to timely or properly reply to the Notice to File Missing Parts (Notice) mailed on 03/03/1999.

A petition to the Commissioner under 37 CFR 1.137 may be filed requesting that the application be revived.

Under 37 CFR 1.137(a), a petition requesting the application be revived on the grounds of UNAVOIDABLE DELAY must be filed promptly after the applicant becomes aware of the abandonment and such petition must be accompanied by: (1) an adequate showing of the cause of unavoidable delay; (2) the required reply to the aboveidentified Notice: (3) the petition fee set forth in 37 CFR 1.17(I); and (4) a terminal disclaimer if required by 37 CFR 1.137(d).

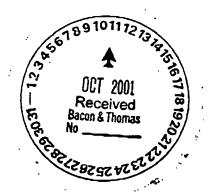
Under 37 CFR 1.137(b), a petition requesting the application be revived on the grounds of UNINTENTIONAL DELAY must be filed promptly after applicant becomes aware of the abandonment and such petition must be accompanied by: (1) a statement that the entire delay was unintentional; (2) the required reply to the aboveidentified Notice; (3) the petition fee set forth in 37 CFR 1.17(m); and (4) a terminal disclaimer if required by 37 CFR 1,137(d).

Any questions concerning petitions to revive should be directed to "Office of Petitions" at (703) 305-9282.

A copy of this notice MUST be returned with the reply.

Initial Patent Examination Division (703) 308-1202

PART 1 - ATTORNEY/APPLICANT COPY



ENDORSE HEGE

22159 BACON & THOMAS 7-86 COMMISSIONER OF PATENTS ACCOUNT 625 SLATERS LANE PH. 703-683-0500 ALEXANDRIA, VA 22314 PAY TO THE ORDER OF \$ 130.00 **COMMISSIONER OF PATENTS & TRADEMARKS** DOLLARS 1105600760<u>41:206</u>5202824409# **0000 1 3000°

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BACON & THOMAS 625 Slaters Lane 4th FL, Alexandria, VA 22314

PATENT APPLICATION (PENDING)

Serial No: 09/243,433	Filed: Peb	ruary 23, 1999	Anomey: REF
Applicant(s): LO et al. MAILROOM	⊔ ARTINIT	<u> </u>	
Special Instructions:		<u> </u>	
The PTO starmp hereon acknowledge	owledges receipt of:		
☐ Amendment/Response	Missing Parts Response w/Deel.	Request for Refund	
Check \$ 130.00	Li Appeal Brief (Triplicate)	Form PTO-1533	
☐ Issue Fee	☐ Priority Documents(s)	Assignment	
Preliminary Amendment	☐ Notice of Appeal		0/0
D Extension of Time Petitio	n Substitute Declaration		
☐ Terminal Disclaimer	☐ Information Disclosure Stmnt	□w/refs.	(4A)
Reply Brief (Triplicate)	☐ Request for CPA		23 100 5
☐ Sheets of Drawings -	□ Formal □ Informal		
☐ Sm. Entity Statements —	□ Inv. □ Sm. Bus. □ Non-Inv. □	Non-Profit	This west life
☐ Communication To:			EMAKR O
Filed By:		•	

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

LO ct al.

Attention:

BOX MISSING PARTS

Serial No.:

09/243,433

Flied:

February 3, 1999

For:

A method For Making a Tungsten-Plug in An Integrated Circuit

Device Wilhout Volcano Phenomena

RESPONSE AND SUBMISSION OF MISSING PARTS OF APPLICATION HAVING BEEN GRANTED FILING DATE

Assistant Commissioner of Patents Washington, D.C. 20231

Sir:

This is in response to the Official Action dated March 3, 1999, in connection with the above-Identified application. The period for response to the Official Action has been set to expire on May 3, 1999.

The Official Action acknowledges receipt of the application, but indicates that the Declaration under 37 C.F.R. §1.66 is unexecuted. Applicants submit herewith a properly and fully executed Declaration which identifies the application by serial number, title and by inventors. Form PTO-1533 is submitted herewith along with the required \$130.00 surcharge.

It is believed that the application is now in condition for examination. Accordingly, applicants most respectfully request that an Official Filing Receipt be issued and that the application be forwarded to the appropriate examining group for its examination in due course.

> Respectfully submitted, **BACON & THOMAS, PLLC**

Registration No. 26,382

625 Slaters Lane, Fourth Floor Alexandria, Virginia 22314 Telephone: 703-683-0500 Facsimile: 703-683-1080

April 23, 1999





DECLARATION FOR PATENT APPLICATION AND APPOINTMENT OF ATTORNEY

As a below named inventor, I hereby declare that my residence, post office address and citizenship are as stated below need to my name; I believe that I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural entitled: A METHOD FOR MAKING A TUNGSTEN-PLUG IN AN INTEGRATED CIRCUIT DEVICE WITHOUT VOLCANO PHENOMENA

the specification of which (check one):

D is attached hereto, or B was filed on: February 3, 1999

as U.S. Application Number: 09/243,433

and (if applicable) was amended on:

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment(s) referred to above. I acknowledge the cuty to disclose information which is material to patentability as defined in Title 31, Code of Federal Regulations, §1.56. I hereby claim foreign priority benefits under Title 33, United States Code §119 of any foreign application(s) for patent or inventor's cartificate listed below and have also identified below any furtien application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed.

	PRIOR FOREIGN APPLICATION(E)		PRIGRITY	CLAMED
Number	Country	Day/Month/Year Filed	Yes	No
				_

O Additional Priority Application(a) Listed on Following Page(5)

I HEREDY GLAIM THE BENEFIT UNDER TITLE 35 U.S. CODE \$119(E) OF ANY U.S. PROVISIONAL APPLICATIONS LISTED BELOW.		
Application Number	Day/Month/Year Filed	

Additional Provisional Application(s) Listed on Following Page(s)

[1. I hereby claim the benefit under Title 35. United States Code, \$120 of any United States application(s) or PCT international application(s) designating The United States of America listed below and, invofar as the subject matter of each of the claims of this application is not disclosed in that/those prior application(s) in the manner provided by the first paragraph of Title 35, United States Code, \$112, I sukmowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations, \$1.56 which become available between the filing date of the prior application(s) and the national of PCI international filing date of this application;

Application Number	Filing Date	Status - Patented, Pending or Abandoned
08/651,535	May 22, 1996	Abandoued in favor of CIP

☐ Additional US/PCT Priority Application(s) listed on Pollowing Page(s)

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true, and further that these statements were made with the knowledge that willful false statements and the like so made are pumishable by fine or imprisonment, or both, under section 1001 of title 18 of the United States Code and that such willful false statements may proper the validity of the application or any patent issued thereon.

POWER OF ATTORNEY: I (We) hereby appoint as my (our) attorneys, with full powers of substitution and revocation, to prosecute this application and transact all business in the Patent and Trademark Office connected therewith: J. Ernest Kenney, Rrg. No. 19,179; Eugene Mar, Keg. No. 25,893; Richard E. Fichter, Reg. No. 26,382; Charles R. Wolfe, Jr., Reg. No. 28,680; Thomas J. Moore, Reg. No. 28,974; Joseph DeBenedictis, Reg. No. 28,502; Denjamin E. Urcia, Reg. No. 33,805; Chung C. Chen, Reg. No. 31,725; and

I(we) authorize my(our) afterneys to accept and follow instructions from Yuso inequational Payent and Trademark Office regarding any matter related to the preparation, examination, grant and maintenance of this application, day continuation, continuation, in part of divisional based discrepant, and any patent resulting therefrom, until I(we) or my(our) assigns withdraw this authorization in writing.

Sand correspondence to:

BACON & THOMAS, PLLC 625 Slaters Lane • 4th Floor Alexandria, VA 22314-1176

Telephone Calls to: (703) 683-0500

FULL NAME OF FIRST OR SOLE INVENTOR YUNG-TSUN LO	CITICENSHIP Taiwan
REALDENCE ADDRESS No. 123, Lin Shen Rd Lo Dong Town, Yi Lan	POST OFFICE ADDRESS IS THE SAME AS RESIDENCE ADDRESS UNLESS OTHERWICE SHOWN BELOW
Dir. March 25, 1999	SIGNATURE Ymg-Toun, Los



ATTORNEY/DOCKE...10: REF/433/LO CONTINUATION OF DECLARATION FOR PATENT APPLICATION AND APPOINTMENT OF ATTORNEY

Page 2

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Reminus Aconses No. 036. Jing Cheng Rd. Taichung, Taiwan, R.O.C.	POUT OFFICE ADDRESS IS THE SAME AS RESIDENCE ADDRESS UNLESS OTHERWISE SHOWN BELOW
March 28. 1999	SIGNATURE Lay Sin
<u>(1)</u>	
FUL NAME OF JOHN IMPARTOR 13 4 'Wen-Yu HO	Спивняю Таімац
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DATE : . March >6. 1989	SIGNATURE Wen-Yu Ho
&	
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DATE "	SIGNATURE
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FULL NAME OF JOINT INVENTOR	Спинкан
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